

Attorney Docket No. 6750-0007.02 (SU98-U01.US1.CON1)

PATENT

I hereby certify that this correspondence is being deposited with the United States Patent Office with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 2, 2004.

By: Gail Wardwell
Name: Gail Wardwell

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of ALEXANDER et al.

Serial No.: 10/764,010

Examiner: Unassigned

Confirmation No.:

Art Unit: Unassigned

Filed: January 22, 2004

For: ASSESSING THE CONDITION OF A JOINT AND DEVISING TREATMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT TRANSMITTAL

Enclosed is an Information Disclosure Statement and accompanying Form PTO/SB/08A for the above-identified patent application.

- ☒ In accordance with 37 C.F.R. §1.97(b), no additional fee for submission of the IDS is required.
- ☐ In accordance with 37 C.F.R. §1.97(c), also enclosed is:
- ☐ the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p); or
- ☐ a statement as specified in 37 C.F.R. §1.97(e).
- ☐ In accordance with 37 C.F.R. §1.97(d), a statement as specified in 37 C.F.R. §1.97(e) and the fee of \$180.00 as set forth in 37 C.F.R. §1.17(p) are also enclosed.
- ☐ Check No. _____ in the amount of \$180 for the total fee is attached.



☒ [X] A return receipt postcard is also enclosed.

☐ [] Please charge \$_____ to Deposit Account No. 18-1648 for the total fee.
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The Commissioner is hereby authorized to charge any appropriate fees under 37 C.F.R. §§1.16, 1.17, and 1.21 that may be required by this paper, and to credit any overpayment, to Deposit Account No. 18-1648.

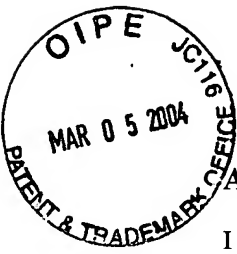
Dated: 3-2-04

Respectfully submitted,

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**INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §1.97(b)**

In accordance with the duty of disclosure set forth in 37 C.F.R. §1.56,
Applicant(s) hereby submits the following information in conformance with 37 C.F.R.
§§1.97 and 1.98.

- ☐ Pursuant to 37 C.F.R. §1.98, a copy of each document cited in the attached Form PTO/SB/08 is enclosed.
- ☒ No copies of the publications listed on the attached Form PTO/SB/08A are being provided pursuant to 37 C.F.R. §1.98(d) because the publications were previously cited by or submitted to the Office in prior Application Serial No. 09/662,224 to which the above-identified application claims priority under 35 U.S.C. §120.
- ☐ Publication(s) _____ listed on the attached Form PTO/SB/08A were cited in a foreign search or examination report corresponding to _____ application serial no. _____ and mailed on _____.



- ☐ Enclosed is a copy of a non-English publication(s) _____. Pursuant to §609 of the M.P.E.P., Applicant submits the attached foreign search or examination report, which cites such non-English language publication(s).
- ☐ Enclosed is a copy of a non-English publication(s) _____. English language publication ____ (copy enclosed) claims priority from this non-English publication.
- ☐ Enclosed is an explanation of non-English publication(s) _____ for which an English translation is not available.
- ☐ Enclosed is an English translation of non-English publication(s) _____ cited in the attached Form PTO/SB/08A.
- ☐ Enclosed is a copy of pending patent Application Serial No. _____.

This Information Disclosure Statement is filed within any one of the following time periods:

- ☐ within three months from the filing date of this national application other than a CPA under 37 C.F.R. § 1.53(d);
- ☐ within three months from the date of entry of the national stage as set forth in 37 C.F.R. §1.491 in this international application;
- ☒ before the mailing date of a first office action on the merits; or
- ☐ before the mailing of a first office action after the filing of a request for continued examination under 37 C.F.R. § 1.114.

It is respectfully requested that the Examiner consider the above-noted information and return an initialed copy of the attached Form PTO/SB/08A to the undersigned.

Dated: Mar 2, 2004

Respectfully submitted,

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PTO/SB/08A (08-00)

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/764,010
				Filing Date	January 22, 2004
				First Named Inventor	ALEXANDER et al.
				Group Art Unit	Unassigned
Examiner Name	Unassigned				
Sheet	1	of	16	Attorney Docket Number	6750-0007.02 (SU98-U01.US1.CON1)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
		Number	Kind Code (if known)		
	A1	US-2002-0016543		Tyler	2/7/02
	A2	US-2002-0087274		Alexander et al.	7/4/02
	A3	US-2002-0147392		Steines et al.	10/10/02
	A4	US-2003-0015208		Lang et al.	1/23/03
	A5	4,655,227		Gracovetsky	4/7/87
	A6	4,699,156		Gracovetsky	10/1/87
	A7	4,813,436		Au	3/21/89
	A8	4,823,807		Russell et al.	6/24/03
	A9	5,099,859		Bell	3/31/92
	A10	5,154,178		Shah	10/13/92
	A11	5,246,013		Frank et al.	6/24/03
	A12	5,320,102		Paul et al.	6/14/94
	A13	5,413,116		Radke et al.	5/9/95
	A14	5,433,215		Athanasiou et al.	7/18/95
	A15	5,445,152		Bell et al.	8/29/95
	A16	5,503,162		Athanasiou et al.	4/2/96
	A17	5,541,515		Tsujita	7/30/96
	A18	5,564,437		Bainville et al.	10/15/96
	A19	5,682,886		Delp et al.	11/4/97
	A20	5,749,362		Funda et al.	5/12/98
	A21	5,772,595		Votruba et al.	6/30/98
	A22	5,779,651		Buschmann et al.	7/14/98
	A23	5,810,006		Votruba et al.	9/22/98
	A24	5,824,085		Sahay et al.	10/20/98
	A25	5,853,746		Hunziker	12/29/98
	A26	5,880,976		DiGioia III et al.	3/9/99
	A27	5,899,859		Votruba et al.	5/4/99
	A28	5,913,821		Farese et al.	6/22/99
	A29	5,928,945		Seliktar et al.	7/27/99
	A30	5,995,738		DiGioia III et al.	11/30/99
	A31	6,002,859		DiGioia III et al.	12/14/99
	A32	6,078,680		Yoshida et al.	6/20/00
	A33	6,161,080		Aouni-Ateshian	12/12/00
	A34	6,175,655		George III et al.	1/16/01
	A35	6,205,411		DiGioia III et al.	3/20/01
	A36	6,249,692		Cowin	6/19/01
	A37	6,289,753		Basser et al.	9/18/01
	A38	6,310,477		Schneider	10/30/01
	A39	6,310,619		Rice	10/30/01
	A40	6,316,153		Goodman et al.	11/13/01
	A41	6,334,006		Tanabe	12/25/01
	A42	6,334,066		Rupprecht et al.	12/25/01
	A43	6,450,978		Brosseau et al.	9/17/02
	A44	6,533,737		Brosseau et al.	3/18/03
	A45	6,560,476		Pelletier et al.	5/6/03

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FOREIGN PATENT DOCUMENTS						
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		Office	Number	Kind Code (if known)		
	B1	PCT	WO 02/22014		Leland Stanford Junior University	3/21/02

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T
	C1	ADAM et al., "NMR tomography of the cartilage structures of the knee joint with 3D-volume imag combined with a rapid optical-imaging computer," <i>ROFO Fortschr. Geb. Rontgenstr. Nuklearmed.</i> 150(1):44-48, 1989	
	C2	ADAM et al. "MR Imaging of the Knee: Three-Dimensional Volume Imaging Combined with Fast Processing." <i>J Comput Asst Tomogr</i> 1989 Nov-Dec.; 13(6): 984-988	
	C3	ADAMS et al. "Quantitative Imaging of Osteoarthritis." <i>Semin Arthritis Rheum</i> 1991 June; 20(6) Suppl. 2: 26-39	
	C4	AHMAD et al. "Biomechanical and Topographic Considerations for Autologous Osteochondral Grafting in the Knee." <i>Am J Sports Med</i> 2001 Mar-Apr.; 29(2): 201-206	
	C5	ALEXANDER "Estimating the motion of bones from markers on the skin (Doctoral Dissertation)," University of Illinois at Chicago (1998)	
	C6	ALEXANDER and ANDRIACCHI "Correcting for deformation in skin-based marker systems," Proceedings of the 3rd Annual Gait and Clinical Movement Analysis Meeting, San Diego, CA (1998)	
	C7	ALEXANDER and ANDRIACCHI "Internal to external correspondence in the analysis of lower limb bone motion," Proceedings of the 1999 ASME Summer Bioengineering Conference, Big Sky, Montana (1999)	
	C8	ALEXANDER and ANDRIACCHI "State estimation theory in human movement analysis," Proceedings of the 1998 ASME International Mechanical Engineering Congress (1998)	
	C9	ALEXANDER "Dynamic functional imaging of the musculoskeletal system," ASME Winter International Congress and Exposition, Nashville, Tennessee (1999)	
	C10	ALEXANDER et al. "Optimization techniques for skin deformation," Correction. International Symposium on 3-D Human Movement Conference, Chattanooga, TN, (1998)	
	C11	ALLEN et al. "Late degenerative changes after meniscectomy 5 factors affecting the knee after operations," <i>J Bone Joint Surg</i> 66B:666-671 (1984)	
	C12	ALLEY et al. "Ultrafast contrast-enhanced three dimensional MR Aagiography: State of the art," <i>Radiographics</i> 18:273-285 (1998)	
	C13	ANDRIACCHI and STRICKLAND, "Gait analysis as a tool to assess joint kinetics biomechanics of normal and pathological human articulating joints," <i>Nijhoff, Series E</i> 93:83-102 (1985)	
	C14	ANDRIACCHI "Dynamics of knee Malalignment," <i>Orthop Clin North Am</i> 25:395-403 (1994)	

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C15	ANDRIACCHI et al. "A point cluster method for <i>in vivo</i> motion analysis: Applied to a study of knee kinematics," <i>J. Biomech Eng</i> 120(12):743-749 (1998)
C16	ANDRIACCHI et al. "Methods for evaluating the progression of Osteoarthritis," <i>Journal of Rehabilitation Research and Development</i> 37(2):163-170 (2000)
C17	ANDRIACCHI and TONEY, "In vivo measurement of six-degrees-of-freedom knee movement during functional testing," <i>Transactions of the Orthopedic Research Society</i> pp 698 (1995)
C18	ARO et al. "Clinical Use of Bone Allografts." <i>Ann Med</i> 1993; 25: 403-412
C19	BASHIR et al., "Validation of Gadolinium-Enhanced MRI of GAG Measurement in Human Cartilage"
C20	BEAULIEU et al. "Glenohumeral relationships during physiological shoulder motion and stress testing: Initial experience with open MRI and active Scan-25 plane registration," <i>Radiology</i> (accepted for publication) (1999)
C21	BEAULIEU et al., "Dynamic imaging of glenohumeral instability with open MRI," <i>Int. Society for Magnetic Resonance in Medicine</i> Sydney, Australia (1998)
C22	BECKMANN et al. "Noninvasive 3D MR Microscopy as a Tool in Pharmacological Research: Application to a Model of Rheumatoid Arthritis." <i>Magn Reson Imaging</i> 1995; 13(7): 1013-1017
C23	BOBIC "Arthroscopic osteochondral autograft transplantation in anterior cruciate ligament reconstruction: a preliminary clinical study," <i>Knee Surg Sports Traumatol Arthrosc</i> 3(4):262-264 (1996)
C24	BOE and HANSEN "Arthroscopic partial meniscectomy in patients aged over 50," <i>J. Bone Joint Surg</i> 68B:707 (1986)
C25	BORTHAKUR et al. "In Vivo Triple Quantum Filtered Sodium MRI of Human Articular Cartilage" Seventh Scientific Meeting of ISMRM, p. 549, 1999
C26	BREGLER et al. "Recovering non-rigid 3D shape from image streams," <i>Proc. IEEE Conference on Computer Vision and Pattern Recognition</i> (2000) in press
C27	BRET et al. "Quantitative analysis of biomedical images," University of Manchester, Zeneca Pharmaceuticals, IBM UK, http://www.wiau.man.ac.uk/~ads/imv
C28	BRITTBERG et al. "A critical analysis of cartilage repair," <i>Acta Orthop Scand</i> 68 (2):186-191 (1997)
C29	BRITTBERG et al. "Treatment of deep cartilage defects in the knee with autologous chondrocyte transplantation," <i>N Engl J Med</i> 331(14): 889-895 (1994)
C30	BRODERICK et al. "Severity of articular cartilage abnormality in patients with osteoarthritis: evaluation with fast spin-echo MR vs arthroscopy," <i>AJR</i> 162: 99-103 (1994)
C31	BURBKART et al. "Magnetic Resonance Imaging-Based Assessment of Cartilage Loss in Severe Osteoarthritis." <i>Arth Rheum</i> 2001 Sept.; 44(9): 2072-2077
C32	BUTTERWORTH et al., Depts of Biomedical Engineering, Medicine, Neurology, & Center for Nuclear Imaging Research, University of Alabama at Birmingham, USA
C33	BUTTS et al. "Real-Time MR imaging of joint motion on an open MR imaging scanner," <i>Radiological Society of North America</i> , 83rd Scientific Assembly and Annual Meeting, Chicago, IL, (1997)

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C34	CARANO et al., "Estimation of erosive changes in rheumatoid arthritis by temporal multispectral analysis" Seventh Scientific Meeting of ISMRM, p. 408, 1999	
C35	CASTRIOTA-SANDERBEG et al. "Precision of Sonographic Measurement of Articular Cartilage: Inter- and Intraobserver Analysis." <i>Skeletal Radiol</i> 1996; 25 : 545-549	
C36	CHAN et al. "Osteoarthritis of the knee: comparison of radiography, CT, and MR imaging to asse extent and severity," <i>AJR Am J Roentgenol</i> 157(4):799-806, 1991	
C37	CLARKE et al. "Human Hip Joint Geometry and Hemiarthroplasty Selection." <i>The Hip</i> . C.V. Mosby, St. Louis; 1975. pp 63-89	
C38	COHEN et al., "Knee cartilage topography, thickness, and contact areas from MRI: in-vitro calibration and in-vivo measurements," <i>Osteoarthritis and Cartilage</i> 7:95-109, 1999	
C39	CREAMER et al. "Quantitative Magnetic Resonance Imaging of the Knee: A Method of Measuring Response to Intra-Articular Treatments." <i>Ann Rheum Dis</i> 1997; 56 : 378-381	
C40	DANIEL "Breast cancer-gadolinium-enhanced MR imaging with a 0.5T open imager and three-point Dixon technique," <i>Radiology</i> 207(1):183-190 (1998)	
C41	DARDZINSKI et al., "T1-T2 Comparison in Adult Articular cartilage," <i>ISMRM Seventh Scientific Meeting</i> , Philadelphia, PA, May 22-28, 1999	
C42	DARDZINSKI et al., "Entropy Mapping of Articular Cartilage" Seventh Scientific Meeting of ISMRM, Philadelphia, PA	
C43	DISLER "Fat-suppressed three-dimensional spoiled gradient-recalled MR imaging: assessment of articular and physéal hyaline cartilage," <i>AJR</i> 169:1117-1123 (1997)	
C44	DISLER et al., "Fat-suppressed three-dimensional spoiled gradient-echo MR imaging of hyaline cartilage defects in the knee: comparison with standard MR imaging and arthroscopy," <i>AJR</i> 167:127-132 (1996)	
C45	DISLER et al. "Detection of knee hyaline cartilage defects using fat-suppressed three-dimensional spoiled gradient-echo MR imaging: comparison with standard MR imaging and correlation with arthroscopy," <i>AJR</i> 165:377-382 (1995)	
C46	DOHERTY, HUTTON, BAYLISS: Osteoarthritis. In: Maddison PJ, Isenberg DA, Woo P, et al., eds. Oxford Textbook of Rheumatology, vol 1. Oxford, New York, Tokyo: Oxford University Press, 959-983 (1993)	
C47	DOUGADOS "Longitudinal radiologic evaluation of osteoarthritis of the knee," <i>J Rheumatol</i> 19:378-384 (1992)	
C48	DU "Vessel enhancement filtering in three-dimensional MR angiography," <i>J. Magn Res Imaging</i> 5:151-157 (1995)	
C49	DU et al., "Reduction of partial-volume artifacts with zero filled interpolation in three-dimensional MR Angiography," <i>J Magn Res Imaging</i> 4:733-741 (1994)	
C50	DUFOUR et al. "A Technique for the Dynamical Evaluation of the Acromiohumeral Distance of the Shoulder in the Seated Position under Open-field MRI" Seventh Scientific Meeting of ISMRM, p. 406, 1999	
C51	DUMOULIN et al. "Real-time position monitoring of invasive devices using magnetic resonance," <i>Magn Reson Med</i> 29:411-5 (1993)	

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	C52	DUPUY et al. "Quantification of Articular Cartilage in the Knee with Three-Dimensional MR Imaging." <i>Acad Radiol</i> 1996; 3: 919-924	
	C53	ECKSTEIN et al. "Accuracy of Cartilage Volume and Thickness Measurements with Magnetic Resonance Imaging." <i>Clin Orthop</i> 1998; 352: 137-148	
	C54	ECKSTEIN et al. "Magnetic Resonance Chondro-Crassometry (MR CCM): A Method for Accurate Determination of Articular Cartilage Thickness?" <i>Magn Reson Med</i> 1996; 35: 89-96	
	C55	ECKSTEIN et al. "The Influence of Geometry on the Stress Distribution in Joints – A Finite Element Analysis." <i>Anat Embryol</i> 1994; 189: 545-552	
	C56	ECKSTEIN et al. "The Morphology of Articular Cartilage Assessed by Magnetic Resonance Imaging: Reproducibility and Anatomical Correlation." <i>Surg Radiol Anat</i> 1994; 16: 429-438	
	C57	ECKSTEIN et al., "Side differences of knee joint cartilage volume, thickness, and surface area, and correlation with lower limb dominance - an MRI-based study," <i>Osteoarthritis and Cartilage</i> 10: 914 - 921 (2002)	
	C58	ECKSTEIN et al., "New quantitative approaches with 3-D MRI: cartilage morphology, function and degeneration," <i>Medical Imaging International</i> , November-December, 1998	
	C59	ECKSTEIN et al., "Effect of gradient and section orientation on quantitative analyses of knee joint cartilage," <i>Journal of Magnetic Resonance Imaging</i> 11: 161 - 167 (2000)	
	C60	ECKSTEIN et al., "Functional analysis of articular cartilage deformation, recovery, and fluid flow following dynamic exercise in vivo," <i>Anatomy and Embryology</i> 200: 419 - 424 (1999)	
	C61	ECKSTEIN et al., "Effect of physical exercise on cartilage volume and thickness in vivo: an MR imaging study," <i>Radiology</i> 207: 243 - 248 (1998)	
	C62	ECKSTEIN et al., "Determination of knee joint cartilage thickness using three-dimensional magnetic resonance chondro-crassometry (3D MR-CCM)," <i>Magn. Reson. Med.</i> 36(2):256-265, 1996	
	C63	ECKSTEIN et al., "In vivo reproducibility of three-dimensional cartilage volume and thickness measurements with MR imaging," <i>AJR</i> 170(3): 593- 597 (1998)	
	C64	ELTING and HUBBELL, "Unilateral frame distraction: proximal tibial valgus osteotomy for medial gonarthrosis," <i>Contemp Orthop</i> 27(6):522-524 (1993)	
	C65	FABER et al. "Quantitative Changes of Articular Cartilage Microstructure During Compression of an Intact Joint" Seventh Scientific Meeting of ISMRM, p. 547, 1999	

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	C66	FABER et al. "Gender differences in knee joint cartilage thickness, volume and articular surface areas: assessment with quantitative three-dimensional MR imaging," <i>Skeletal radiology</i> 30(3):144-150, 2001	
	C67	FALCAO et al. "User-steered image segmentation paradigms: Live wire and live lane," <i>Graphical Models and Image Processing</i> 60:233-260 (1998)	
	C68	FELSON et al., "Weight Loss Reduces the risk for symptomatic knee osteoarthritis in women: the Framingham study," <i>Ann Intern Med</i> 116:535-539 (1992)	
	C69	GANDY et al., "One-year longitudinal study of femoral cartilage lesions in knee arthritis", 1999 Seventh Scientific Meeting of ISMRM, p. 1032	
	C70	GARRETT "Osteochondral allografts for reconstruction of articular defects of the knee," <i>Instr Course Lect</i> 47:517-522 (1998)	
	C71	GERSCOVICH "A Radiologist's Guide to the Imaging in the Diagnosis and Treatment of Developmental Dysplasia of the Hip." <i>Skeletal Radiol</i> 1997; 26: 447-456.	
	C72	GHOSH et al., "Watershed Segmentation of High Resolution Articular Cartilage Images for assessment of OsteoArthritis" Seventh Scientific Meeting of ISMRM, Philadelphia, PA 1999	
	C73	GLASER et al. "Optimization and validation of a rapid high resolution T1-w 3D Flash water excitation MR sequence for the quantitative assessment of articular cartilage volume and thickness," <i>Magnetic Resonance Imaging</i> 19: 177 --185 (2001)	
	C74	GOODWIN et al., "MR Imaging of Articular Cartilage: Striations in the Radial Layer Reflect the Fibrous Structure of Cartilage"	
	C75	GOURAUD "Continuous shading of curved surfaces," <i>IEEE Trans on Computers</i> C- 20(6) (1971)	
	C76	GRAICHEN et al., "Three-dimensional analysis of the width of the subacromial space in healthy subjects and patients with impingement syndrome," <i>American Journal of Roentgenology</i> 172: 1081 - 1086 (1999)	
	C77	HALL et al., "Quantitative MRI for clinical drug trials of joint diseases; Virtual Biopsy of articular cartilage"	
	C78	HAUBNER et al. "A Non-Invasive Technique for 3-Dimensional Assessment of Articular Cartilage Thickness Based on MRI Part 2: Validation Using CT Arthrography." <i>Magn Reson Imaging</i> 1997; 15(7): 805-813.	
	C79	HARDY et al., "The influence of the resolution and contrast on measuring the articular cartilage volume in magnetic resonance images," <i>Magn Reson Imaging</i> . 2000 Oct; 18(8):965-72	

Examiner Signature		Date Considered	
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Sheet	7	of	16	Attorney Docket Number	6750-0007.02 (SU98-U01.US1.CON1)

	C80	HARDY et al., "Measuring the thickness of articular cartilage from MR images," <i>J. Magnetic Resonance Imaging</i> 13:120-126, 2001	
	C81	HARGREAVES et al., "MR Imaging of Articular Cartilage Using Driven Equilibrium," <i>Magnetic Resonance in Medicine</i> 42(4):695-703 (October 1999)	
	C82	HARGREAVES et al., "Imaging of Articular Cartilage Using Driven Equilibrium" ISMRM, Sydney, Australia, April 17-24 (1998)	
	C83	HARGREAVES et al., "Technical considerations for DEFT imaging," <i>International Society for Magnetic Resonance in Medicine</i> , Sydney, Australia, April 17-24, (1998)	
	C84	HAUT et al. "A High Accuracy Three-Dimensional Coordinate Digitizing System for Reconstructing the Geometry of Diarthrodial Joints," <i>J. Biomechanics</i> 31:571-577, 1998	
	C85	HAYES and CONWAY "Evaluation of Articular Cartilage: Radiographic and Cross-Sectional Imaging Techniques," <i>Radiographics</i> 12:409-428 (1992)	
	C86	HENKELMAN et al. "Anisotropy of NMR properties of tissues," <i>Magn Res Med.</i> 32:592-601 (1994)	
	C87	HERBERHOLD et al., "In situ measurement of articular cartilage deformation in intact femoropatellar joints under static loading," <i>Journal of Biomechanics</i> 32: 1287 - 1295 (1999)	
	C88	HERBERHOLD et al., "An MR-based technique for quantifying the deformation of articular cartilage during mechanical loading in an intact cadaver joint," <i>Magnetic Resonance in Medicine</i> 39: 843 - 850 (1998)	
	C89	HERRMANN et al. "High Resolution Imaging of Normal and Osteoarthritic Cartilage with Optical Coherence Tomography." <i>J Rheumatol</i> 1999; 26: 627-635.	
	C90	HIGH et al. "Early Macromolecular Collagen Changes in Articular Cartilage of Osteoarthritis (OA): An <i>In Vivo</i> MT-MRI and Histopathologic Study"	
	C91	HOHE et al. "Surface size, curvature analysis, and assessment of knee joint incongruity with MR imaging in vivo," <i>Magnetic Resonance in Medicine</i> , 47:554-561(2002)	
	C92	HUGHES et al. "Technical Note: A Technique for Measuring the Surface Area of Articular Cartilage in Acetabular Fractures." <i>Br J Radiol</i> 1994; 67: 584-588.	
	C93	HUSMANN et al. "Three-Dimensional Morphology of the Proximal Femur." <i>J Arthroplasty</i> 1997 Jun.; 12(4): 444-450.	

Examiner Signature		Date Considered	
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C94	HYHLIK-DURR et al., "Precision of Tibial Cartilage Morphometry with a coronal water-excitation MR sequence." <i>European Radiology</i> 10 (2):297-303 (2000)	
C95	IHARA "Double-Contrast CT Arthrography of the Cartilage of the Patellofemoral Joint." <i>Clin Orthop</i> 1985 Sept.; 198: 50-55.	
C96	IIDA et al. "Socket Location in Total Hip Replacement: Preoperative Computed Tomography and Computer Simulation." <i>Acta Orthop Scand</i> 1988; 59(1):1-5.	
C97	IRARRAZABAL et al., "Fast three-dimensional magnetic resonance imaging," <i>Mag Res. Med.</i> 33:656-662 (1995)	
C98	JOHNSON et al., "Development of a knee wear method based on prosthetic <i>in vivo</i> slip velocity," Transactions of the Orthopedic Research Society, 46 th Annual Meeting, March, 2000	
C99	JOHNSON et al., "The distribution of load across the knee. A comparison of static and dynamic measurements," <i>J. Bone Joint Surg</i> 62B:346-349 (1980)	
C100	JOHNSON "In vivo contact kinematics of the knee joint: Advancing the point cluster technique," Ph.D. Thesis, University of Minnesota (1999)	
C101	JONSSON et al. "Precision of Hyaline Cartilage Thickness Measurements." <i>Acta Radiol</i> 1992; 33(3): 234-239.	
C102	KANEUJI, et al. "Three-Dimensional Morphological Analysis of the Proximal Femoral Canal, Using Computer-Aided Design System, in Japanese Patients with Osteoarthritis of the Hip." <i>J Orthop Sci</i> 2000; 5(4): 361-368.	
C103	KARVONEN et al. "Articular Cartilage Defects of the Knee: Correlation Between Magnetic Resonance Imaging and Gross Pathology." <i>Ann Rheum Dis</i> 1990; 49: 672-675.	
C104	KASS et al. "Snakes: Active contour models.," <i>Int J Comput Vision</i> 1:321-331 (1988)	
C105	KAUFMAN et al., "Articular Cartilage Sodium content as a function of compression" Seventh Scientific Meeting of ISMRM, p. 1022, 1999	
C106	KLOSTERMAN et al., "T ₂ Measurements in Adult Patellar Cartilage at 1.5 and 3.0 Tesla," <i>ISMRM Seventh Scientific Meeting</i> , Philadelphia, PA, May 22-28, 1999	
C107	KNAUSS et al., "Self-Diffusion of Water in Cartilage and Cartilage Components as Studied by Pulsed Field Gradient NMR," <i>Magnetic Resonance in Medicine</i> 41:285-292 (1999)	

Examiner Signature		Date Considered	
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Sheet	9	of	16	Attorney Docket Number	6750-0007.02 (SU98-U01.US1.CON1)

	C108	KOH et al. "Visualization by Magnetic Resonance Imaging of Focal Cartilage Lesions in the Excised Mini-Pig Knee." <i>J Orthop Res</i> 1996 July; 14(4): 554-561.	
	C109	KORHONEN et al., "Importance of the superficial tissue layer for the indentation stiffness of articular cartilage," <i>Med Eng Phys.</i> 2002 Mar;24(2):99-108	
	C110	KORKALA et al. "Autogenous Osteoperiosteal Grafts in the Reconstruction of Full-Thickness Joint Surface Defects." <i>Int Orthop</i> 1991; 15(3): 233-237.	
	C111	KSHIRSAGAR et al., "Measurement of localized cartilage volume and thickness of human knee joints by computer analysis of three-dimensional magnetic resonance images," <i>Invest Radiol.</i> May;33(5):289-99, 1998	
	C112	KWAK et al. "Anatomy of Human Patellofemoral Joint Articular Cartilage: Surface Curvature Analysis." <i>J Orthop Res</i> 1997; 15: 468-472.	
	C113	LAFORTUNE et al. "Three dimensional kinematics of the human knee during walking," <i>J. Biomechanics</i> 25:347-357 (1992)	
	C114	LANG et al., "Functional joint imaging: a new technique integrating MRI and biomotion studies," <i>International Society for Magnetic Resonance in Medicine</i> , Denver, 4/18/00-4/24/00 (2000)	
	C115	LANG et al., "Risk factors for progression of cartilage loss: a longitudinal MRI study." <i>European Society of Musculoskeletal Radiology</i> , 6th Annual Meeting, Edinburgh, Scotland, (1999)	
	C116	LANG et al., "Cartilage imaging: comparison of driven equilibrium with gradient-echo, SPAR, and fast spin-echo sequences." <i>International Society for Magnetic Resonance in Medicine</i> , Sydney, Australia, April 17-24, (1998)	
	C117	LEDINGHAM et al., "Factors affecting radiographic progression of knee osteoarthritis," <i>Ann Rheum Dis</i> 54: 53-58 (1995)	
	C118	LEFEBVRE et al. "Automatic Three-Dimensional Reconstruction and Characterization of Articular Cartilage from High-Resolution Ultrasound Acquisitions." <i>Ultrasound Med Biol</i> 1998 Nov; 24(9): 1369-1381.	
	C119	LIN et al. "Three-Dimensional Characteristics of Cartilagenous and Bony Components of Dysplastic Hips in Children: Three-Dimensional Computed Tomography Quantitative Analysis." <i>J Pediatr Orthop</i> 1997; 17: 152-157.	
	C120	LORENSEN et al., "Marching cubes: a high resolution 3d surface construction algorithm," <i>Comput Graph</i> 21:163-169 (1987)	
	C121	LOSCH et al., "A non-invasive technique for 3-dimensional assessment of articular cartilage thickness based on MRI part 1: development of a computational method," <i>Magn Res Imaging</i> 15(7):795-804 (1997)	

Examiner Signature		Date Considered	
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	C122	LU et al., "Bone position estimation from skin marker co-ordinates using globals optimization with joint constraints," <i>J Biomechanics</i> 32:129 -134 (1999)	
	C123	LUCCHETTI et al., "Skin movement artefact assessment and compensation in the estimation of knee-joint kinematics," <i>J Biomechanics</i> 31:977-984 (1998)	
	C124	LÜSSE et al., "Measurement of distribution of water content of human articular cartilage based on transverse relaxation times: an in vitro study" Seventh Scientific Meeting of ISMRM, P. 1020, 1999	
	C125	LYNCH et al., "Cartilage segmentation of 3D MRI scans of the osteoarthritic knee combining user knowledge and active contours," Proc. SPIE 3979 Medical Imaging, San Diego, February 2000	
	C126	MAKI et al., "SNR improvement in NMR microscopy using DEFT," <i>J Mag Res</i> (1988)	
	C127	MARSHALL et al. "Quantitation of Articular Cartilage Using Magnetic Resonance Imaging and Three-Dimensional Reconstruction." <i>J Orthop Res</i> 1995; 13: 814-823.	
	C128	MATTILA et al. "Massive Osteoarticular Knee Allografts: Structural Changes Evaluated with CT." <i>Radiology</i> 1995; 196: 657-660.	
	C129	MERKLE et al., "A transceive coil assembly for hetero-nuclear investigations of human breast at 4 T" Seventh Scientific Meeting of ISMRM, p. 170, 1999	
	C130	MEYER et al., "Simultaneous spatial and spectral selective excitation," <i>Magn Res Med</i> 15:287-304 (1990)	
	C131	MILLS et al, "Magnetic resonance imaging of the knee: evaluation of meniscal disease," <i>Curr. Opin. Radiol.</i> 4(6):77-82, 1992	
	C132	MILZ et al. "The Thickness of the Subchondral Plate and Its Correlation with the Thickness of the Uncalcified Articular Cartilage in the Human Patella." <i>Anat Embryol</i> 1995; 192: 437-444.	
	C133	MINAS "Chondrocyte Implantation in the Repair of Chondral Lesions of the Knee: Economics and Quality of Life." <i>Am J Orthop</i> 1998 Nov; 27: 739-744.	
	C134	MODEST et al., "Optical verification of a technique for in situ ultrasonic measurement of articular cartilage thickness," <i>J. Biomechanics</i> 22(2):171-176, 1989	
	C135	MOLLICA et al., "Surgical treatment of arthritic varus knee by tibial corticotomy and angular distraction with an external fixator," <i>Ital J Orthop Traumatol</i> 18 (1):17-23 (1992)	

Examiner Signature		Date Considered	
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	C136	MOUSSA "Rotational Malalignment and Femoral Torsion in Osteoarthritic Knees with Patellofemoral Joint Involvement: A CT Scan Study." <i>Clin Orthop</i> 1994 July; 304 : 176-183.	
	C137	MUNDINGER et al., "Magnetic resonance tomography in the diagnosis of peripheral joints," <i>Schweiz Med. Wochenschr.</i> 121(15):517-527, 1991.	
	C138	MYERS et al. "Experimental Assessment by High Frequency Ultrasound of Articular Cartilage Thickness and Osteoarthritic Changes." <i>J Rheumatol</i> 1995; 22 : 109-116.	
	C139	NIEMINEN et al., "T ₂ Indicates Incompletely the Biomechanical Status of Enzymatically Degraded Articular Cartilage at 9.4T" Seventh Scientific Meeting of ISMRM, p. 551, 1999	
	C140	NISHII et al., "Three dimensional Evaluation of the acetabular and femoral articular cartilage in the osteoarthritis of the Hip joint" Seventh Scientific Meeting of ISMRM, p. 1030, 1999	
	C141	NIZARD "Role of tibial osteotomy in the treatment of medial femorotibial osteoarthritis," <i>Rev Rhum Engl Ed</i> 65 (7-9):443-446(1998)	
	C142	NOLL et al., "Homodyne detection in magnetic resonance imaging," <i>IEEE Trans Med Imag</i> 10 (2):154-163 (1991)	
	C143	OGILVIE-HARRIS et al., "Arthroscopic management of the degenerative knee," <i>Arthroscopy</i> 7 :151-157 (1991)	
	C144	PARKKINEN et al., "A mechanical apparatus with microprocessor controlled stress profile for cyclic compression of cultured articular cartilage explants," <i>J Biomech.</i> 1989;22(11-12):1285-91	
	C145	PEARLE et al., "Use of an external MR-tracking coil for active scan plane registration during dynamic Musculoskeletal MR imaging in a vertically open MR unit," American Roentgen Ray Society, San Francisco, CA, (1998)	
	C146	PETERFY et al., "MR imaging of the arthritic knee: improved discrimination of cartilage, synovium, and effusion with pulsed saturation transfer and fat-suppressed TI-weighted sequences," <i>Radiology</i> 191 (2):413-419 (1994)	
	C147	PETERFY et al., "Quantification of the volume of articular cartilage in the carpophalangeal joints of the hand: accuracy and precision of three-dimensional MR imaging," <i>AJR</i> 165 : 371-375 (1995)	
	C148	PETERFY et al., "Quantification of articular cartilage in the knee with pulsed saturation transfer subtraction and fat-suppressed MR imaging: optimization and validation," <i>Radiology</i> 192 (2): 485-491 (1994)	
	C149	PETERFY et al. "Emerging Applications of Magnetic Resonance Imaging in the Evaluation of Articular Cartilage," <i>Radiol Clin North Am</i> 1996 Mar; 34 (2): 195-213.	

Examiner Signature		Date Considered	
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Sheet	12	of	16	Attorney Docket Number	6750-0007.02 (SU98-U01.US1.CON1)

	C150	PILCH et al. "Assessment of cartilage volume in the femorotibial joint with magnetic resonance imaging and 3D computer reconstruction," <i>J. Rheumatol.</i> 21(12):2307-2321, 1994	
	C151	PIPLANI et al., "Articular cartilage volume in the knee: semiautomated determination from three-dimensional reformations of MR images," <i>Radiology</i> 198:855-859 (1996)	
	C152	POTTER et al., "Magnetic resonance imaging of articular cartilage in the knee: an evaluation with use of fast-spin-echo imaging," <i>J. Bone Joint Surg</i> 80-A(9):1276-1284 (1998)	
	C153	POTTER et al., "Sensitivity of Quantitative NMR Imaging to Matrix Composition in Engineered Cartilage Tissue" Seventh Scientific Meeting of ISMRM, p. 552, 1999	
	C154	PROBST et al., "Technique for measuring the area of canine articular surfaces," <i>Am. J. Vet. Res.</i> 48(4):608-609, 1987	
	C155	PRODROMOS et al. "A relationship between gait and clinical changes following high tibial osteotomy," <i>J. Bone Joint Surg</i> 67A:1188-1194 (1985)	
	C156	RADIN et al., "Characteristics of Joint Loading as it Applies to Osteoarthritis" in: Mow VC, Woo S.Y., Ratcliffe T., eds. Symposium on Biomechanics of Diarthrodial Joints, vol 2, New York, NY: Springer-Verlag 437-451 (1990)	
	C157	RADIN et al., "Mechanical Determination of Osteoarthritis," <i>Sem Arthr Rheum</i> 21(3):12-21 (1991)	
	C158	RECHT et al., "Accuracy of fat-suppressed three-dimensional spoiled gradient-echo FLASH MR imaging in the detection of patellofemoral articular cartilage abnormalities," <i>Radiology</i> 198:209-212 (1996)	
	C159	RECHT et al., "MR imaging of articular cartilage: current status and future directions," <i>AJR</i> 163:283-290 (1994)	
	C160	REISER et al., "Magnetic resonance in cartilaginous lesions of the knee joint with three-dimensional gradient-echo imaging," <i>Skeletal Radiol.</i> 17(7):465-471, 1988	
	C161	RITTER et al., "Postoperative alignment of total knee replacement," <i>Clin Orthop</i> 299: 153-156 (1994)	
	C162	ROBARTS Research Institute, Abstract #1028	
	C163	ROBSON et al., "A combined analysis and magnetic resonance imaging technique for computerized automatic measurement of cartilage thickness in distal interphalangeal joint," <i>Magnetic Resonance Imaging</i> 13(5):709-718, 1995	

Examiner Signature		Date Considered	
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	C164	RUSHFELDT et al. "Improved Techniques for Measuring <i>In Vitro</i> the Geometry and Pressure Distribution in the Human Acetabulum – I. Ultrasonic Measurement of Acetabular Surfaces, Sphericity and Cartilage Thickness." <i>J Biomech</i> 1981; 14(4) : 253-260.	
	C165	SAIED et al. "Assessment of Articular Cartilage and Subchondral Bone: Subtle and Progressive Changes in Experimental Osteoarthritis Using 50 MHz Echography <i>In Vitro</i> ." <i>J Bone Miner Res</i> 1997; 12(9) : 1378-1386.	
	C166	SAITO et al. "New algorithms for Euclidean distance transformation of an – dimensional digitized picture with applications," <i>Pattern Recognition</i> 27(11):1551-1565 (1994)	
	C167	SCHIPLIEN and ANDRIACCHI, "Interaction between active and passive knee stabilizers during level walking," <i>J. Orthop Res</i> 9:113-119 (1991)	
	C168	SCHOUTEN et al. "A 12 year follow up study in the general population on prognostic factors of cartilage loss in osteoarthritis of the knee," <i>Ann Rheum Dis</i> 51:932-937 (1992)	
	C169	SHAPIRO et al. " <i>In-Vivo</i> Evaluation of Human Cartilage Compression and Recovery using ¹ H and ²³ Na MRI" Seventh Scientific Meeting of ISMRM, p. 548, 1999	
	C170	SHARIF et al. "Serum hyaluronic acid level as a predictor of disease progression in osteoarthritis of the knee," <i>Arthritis Rheum</i> 38:760-767 (1995)	
	C171	SHARMA et al., "Knee adduction moment, serum hyaluronic acid level, and disease severity in medial tibiofemoral osteoarthritis," <i>Arthritis and Rheumatism</i> 41(7):1233-40 (1998)	
	C172	SHOUP et al. "The driven equilibrium Fourier transform NMR technique: an experimental study," <i>J Mag Res</i> p.8 (1972)	
	C173	SITTEK et al. "Assessment of Normal Patellar Cartilage Volume and Thickness Using MRI: an Analysis of Currently Available Pulse Sequences." <i>Skeletal Radiol</i> 1996; 25 : 55-62.	
	C174	SLEMENDA et al. "Lower extremity lean tissue mass and strength predict increases in pain and in functional impairment in knee osteoarthritis," <i>Arthritis Rheum</i> 39(suppl): S212 (1996)	
	C175	SLEMENDA et al. "Lower extremity strength, lean tissue mass and bone density in progression of knee osteoarthritis," <i>Arthritis Rheum</i> 39(suppl.):S169 (1996)	
	C176	SOLLOWAY et al., "The use of active shape models for making thickness measurements of articular cartilage from MR images," <i>Magn Reson Med.</i> 1997 Jun;37(6):943-52	
	C177	SOSLOWSKY et al. "Articular Geometry of the Glenohumeral Joint," <i>Clin Orthop</i> 1992 Dec.; 285 : 181-190.	

Examiner Signature		Date Considered	
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	C178	SPOOR and VELDPAS "Rigid body motion calculated from spatial coordinates of markers," <i>J. Biomechanics</i> 13:391-393 (1980)	
	C179	STAMMBERGER et al., "Determination of 3D cartilage thickness data from MR imaging: computational method and reproducibility in the living," <i>Mag Res Med</i> 41:529-536 (1999)	
	C180	STAMMBERGER et al., "A New Method for 3D Cartilage Thickness Measurement with MRI, Based on Euclidean Distance Transformation, and its Reproducibility in the Living" Sixth Scientific Meeting of ISMRM, p. 562, 1998	
	C181	STAMMBERGER et al., "Elastic registration of 3D cartilage surfaces from MR image data for detecting local changes of the cartilage thickness," <i>Magnetic Resonance in Medicine</i> 44: 592-601 (2000)	
	C182	STAMMBERGER et al., "Interobserver to reproducibility of quantitative cartilage measurements: Comparison of B-spline snakes and manual segmentation," <i>Mag Res Imaging</i> 17:1033-1042 (1999)	
	C183	STAMMBERGER et al., "A method for quantifying time dependent changes in MR signal intensity of articular cartilage as a function of tissue deformation in intact joints," <i>Medical Engineering & Physics</i> 20:741-749, 1998	
	C184	STEINES et al. "Measuring volume of articular cartilage defects in osteoarthritis using MRI." To be presented at ACR 64th Annual Scientific Meeting, Philadelphia, October (2000)	
	C185	STEINES et al. "Segmentation of osteoarthritis femoral cartilage from MR images," CARS - Computer-Assisted Radiology and Surgery, pp 578-583, San Francisco, (2000)	
	C186	STEINES et al., Segmentation of osteoarthritic femoral cartilage using live wire, ISMRM Eight Scientific Meeting, Denver Colorado, 2000	
	C187	STEVENSON et al., "The fate of articular cartilage after transplantation of fresh and cryopreserved tissue-antigen-matched and mismatched osteochondral allografts in dogs," <i>J. Bone Joint Surg</i> 71(9):1297-1307 (1989)	
	C188	TEBBEN et al., "Three-dimensional computerized reconstruction. Illustration of incremental articular cartilage thinning," <i>Invest. Radiol.</i> 32(8):475-484, 1997	
	C189	TIESCHKY et al. "Repeatability of patellar cartilage thickness patterns in the living, using a fat-suppressed magnetic resonance imaging sequence with short acquisition time and three-dimensional data processing," <i>J. Orthop Res</i> 15(6):808-813 (1997)	
	C190	TOMASI and KANADE, "Shape and motion from image streams under orthography—a factorization method," <i>Proc. Nat. Acad. Sci.</i> 90(21):9795-9802 (1993)	
	C191	TSAI et al. "Application of a flexible loop-gap resonator for MR imaging of articular cartilage at 3.0T," International Society for Magnetic Resonance in Medicine, Denver, 4/18/00-4/24/00 (2000)	

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				Filing Date	January 22, 2004
				First Named Inventor	ALEXANDER et al.
				Group Art Unit	Unassigned
				Examiner Name	Unassigned
Sheet	15	of	16	Attorney Docket Number	6750-0007.02 (SU98-U01.US1.CON1)

	C192	TYLER et al. "Detection and Monitoring of Progressive Degeneration of Osteoarthritic Cartilage by MRI." <i>Acta Orthop Scand</i> 1995; 66 Suppl. 266: 130-138.	
	C193	VANDE BERG et al. "Assessment of knee cartilage in cadavers with dual-detector spiral CT arthrography and MR imaging," <i>J. Radiology</i> . 2002 Feb; 222(2):430-436	
	C194	VAN DER LINDEN et al. "MR imaging of hyaline cartilage of 0.5 T: a quantitative and qualitative in vitro evaluation of three types of sequences." <i>Skeletal Radiol</i> 1998, 27: 297-305	
	C195	VAN LEERSUM et al. "Thickness of Patellofemoral Articular Cartilage as Measured on MR Imaging: Sequence Comparison of accuracy, reproducibility, and interobserver variation." <i>Skeletal Radiol</i> 1995; 24: 431-435.	
	C196	VELYVIS et al., "Evaluation of Articular Cartilage with Delayed Gd(DTPA)2-Enhanced MRI: Promise and Pitfalls" Seventh Scientific Meeting of ISMRM, p. 554, 1999	
	C197	WANG et al. "The influence of walking mechanics and time on the results of proximal tibial osteotomy," <i>J. Bone Joint Surg</i> 72A:905-909 (1990)	
	C198	WARFIELD et al., "Automatic Segmentation of MRI of the Knee" Sixth Scientific Meeting and Exhibition of ISMRM, p. 563, April 18-24, 1998, Sydney, Australia	
	C199	WARFIELD et al. "Adaptive template moderated spatially varying statistical classification," Proc. First International Conference on Medical Image Computing and Computer Assisted ..., MICCAI 1998, pp. 231-238	
	C200	WARFIELD et al. "Adaptive, Template Moderated Spatially Varying Statistical Classification," <i>Medical Image Analysis</i> 4(1): 43-55, 2000	
	C201	WATERTON et al. "Magnetic Resonance Methods for Measurement of Disease Progression in Rheumatoid Arthritis." <i>Magn Reson Imaging</i> 1993; 11: 1033-1038.	
	C202	WATERTON et al., "Diurnal variation in the femoral articular cartilage of the knee in young adult humans," <i>Mag Res Med</i> 43:126-132 (2000)	
	C203	WATSON et al. "MR Protocols for Imaging the Guinea Pig Knee." <i>Magn Reson Imaging</i> 1997; 15(8): 957-970.	
	C204	WAYNE et al., "Measurement of articular cartilage thickness in the articulated knee," <i>ANN Biomed Eng</i> . 1998 Jan-Feb; 26(1):96-102	
	C205	WAYNE et al. "Finite Element Analyses of Repaired Articular Surfaces." <i>Proc Instn Mech Eng</i> 1991; 205(3): 155-162.	

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Sheet	16	of	16	Attorney Docket Number	6750-0007.02 (SU98-U01.US1.CON1)

	C206	WOOLF et al. "Magnetization transfer contrast: MR imaging of the knee," <i>Radiology</i> <u>179</u> : 623-628 (1991)	
	C207	WORRING et al. "Digital curvature estimation. CVGIP," <i>Image Understanding</i> 58(3): p. 366-382 (1993)	
	C208	YAN "Measuring changes in local volumetric bone density," new approaches to quantitative computed tomography, Ph.D. thesis, 1998, Dept. of Electrical Engineering, Stanford University	
	C209	YAO et al. "Incidental magnetization transfer contrast in fast spin-echo imaging of cartilage," <i>J. Magn Reson Imaging</i> <u>6</u> (1):180-184 (1996)	
	C210	YAO et al. "MR imaging of joints: analytic optimization of GRE techniques at 1.5 T," <i>AJR</i> <u>158</u> (2):339-345 (1992)	
	C211	YASUDA et al. "A 10 to 15 year follow up observation of high tibial osteotomy in media compartment osteoarthritis," <i>Clin Orthop</i> <u>282</u> :186-195 (1992)	

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